

CHRYSO® SWELLSEAL

Hydro Swelling Joint Sealant Strip



Description

CHRYSO SWELLSEAL is polymer based composite Hydro-swelling joint sealant strip for construction joints, cold joints, pipe penetrations, subterranean prefab constructions, etc.

CHRYSO SWELLSEAL compacted in in-situ concrete or between prefabricated concrete elements, will expand in contact with water and in this way fill the voids in the joints. Thanks to its flexibility and swell-capacities, CHRYSO SWELLSEAL can absorb the movements of the construction.

The swell-capacities of CHRYSO SWELLSEAL are reversible and infinite. The durability and effectiveness of the system thus largely exceed the life span of the construction.

Indicative Characteristics

Expansion Ratio, Contact with potable water	~3 times
Tensile Strength, kg/cm ²	30
Elongation at break, %	>300
Hardness Shore A	>40
Density	~1.4

Domains of Application

CHRYSO SWELLSEAL has been developed to resolve the most difficult waterproofing problem in nearly all areas of the construction sector. The most common applications are construction and cold joints in concrete, pipe penetrations, sewer systems, sub-terranean pre-fabricated concrete elements, temporary openings, etc.

CHRYSO SWELLSEAL has already proven its efficiency in the construction of water treatment plants, underground car park, water reservoirs, swimming pools, metro systems and other concrete constructions under a relatively high water pressure.

Method of Application

Preliminary treatment of the surface

Prior to the installation of SWELLSEAL, the surface should be evened, dry, clean and free of oil, dust and laitance.

The surface of the joint should be completely dry, whenever necessary, a hot air blower should be used; the excess humidity will cause a lack of bonding and even release of the strip during the application.

Installation

CHRYSO SWELLSEAL STRIP is applied with the help of nails or suitable adhesive. The glue is applied both on the concrete and the CHRYSO SWELLSEAL and is allowed to dry (until tacky to the touch) in order to obtain a maximal adhesion and easy application.

CHRYSO SWELLSEAL is placed in the middle of the joints, between the inner and outer reinforcement bars. The minimum global covering concrete thickness around the SWELLSEAL is to be at least 7cm on order to counter balance the expansion pressures of the strip. The SWELLSEAL ends are simply butted together. A good and uniform adhesion of the strip to the concrete surface is of the utmost important. For use in in-situ concrete, the strip can additionally be nailed to prevent it from slipping away during the concrete pour.

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Advantages

- Expands slowly to ensure non-disturbance of fresh concrete
- Resilience enough to fill small gaps and difficult profile of concrete
- Reversible swellability
- Does not corrode in fully immersed condition

Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C

Packing

20mm x 5mm, 20 mm x 6 mm, 20 mmx10mm, 10 mm x 3 mm sizes are available in packs of 100 RMT length.

Precautions

- Do not store in moist area.

Safety

Before use, refer to the Material Safety Data Sheet.
The MSDS is available on www.chryso.com

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.chryso.com

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